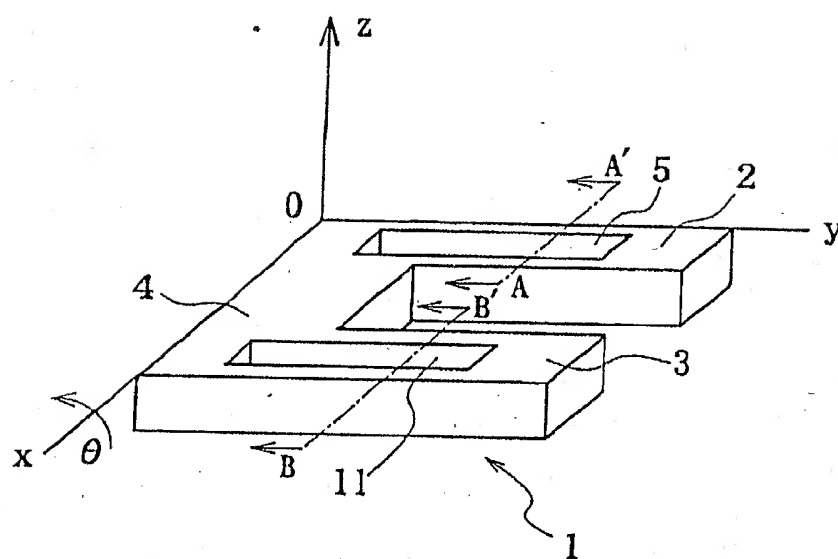


FIG. 1



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The diagram illustrates a four-quadrant electrostatic transducer. It features four quadrants (1, 2, 3, 4) arranged in a cross pattern. Each quadrant has a central electrode (5, 6, 7, 8) and a surrounding electrode (9, 10, 11, 12). The quadrants are connected to a common ground (13) and a positive supply (14). The central electrodes are connected to a common ground (15) and a negative supply (16). The diagram shows the electric field (E_x) between the electrodes. A coordinate system (x , y , z) is shown at the top left.

FIG. 3

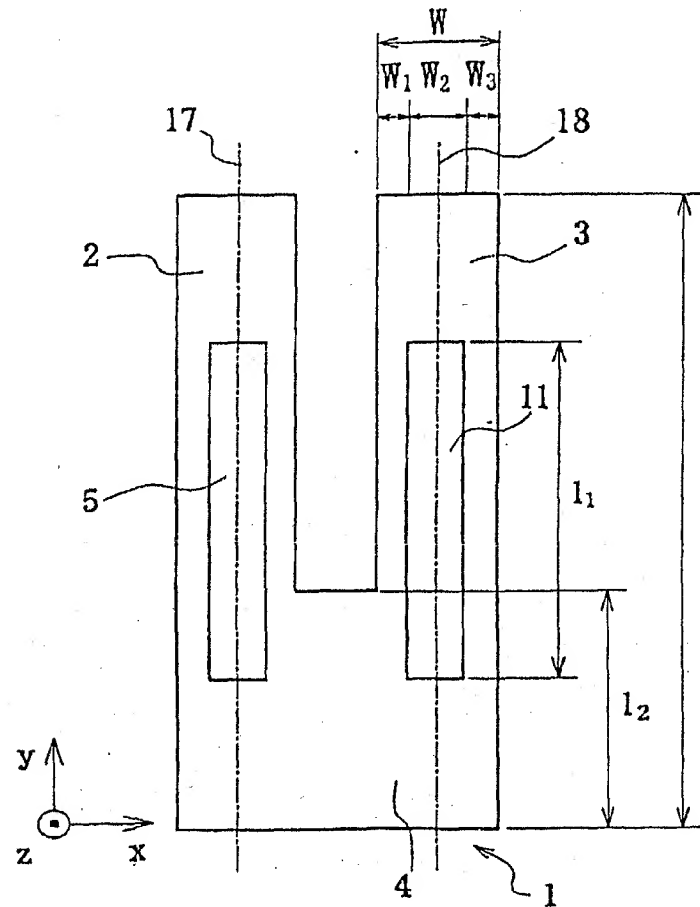


FIG. 4

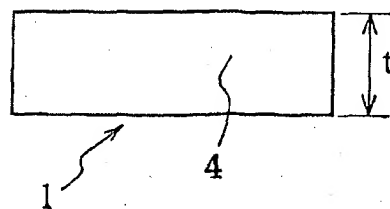


FIG. 5

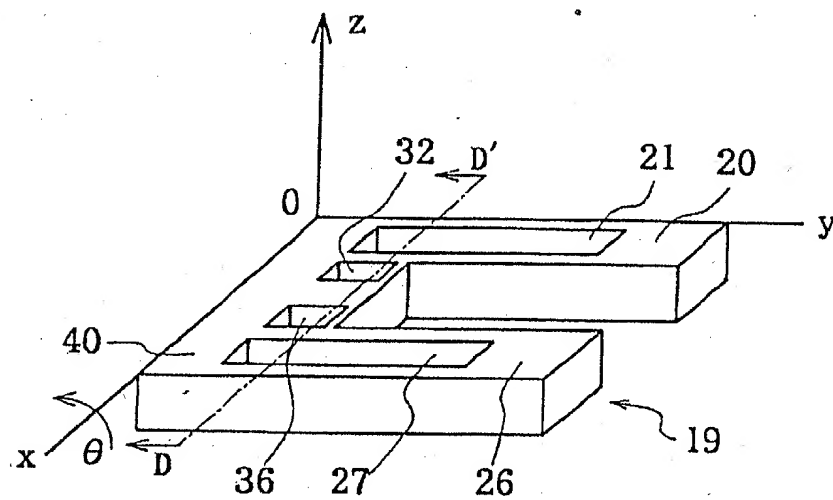


FIG. 5

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FIG. 7

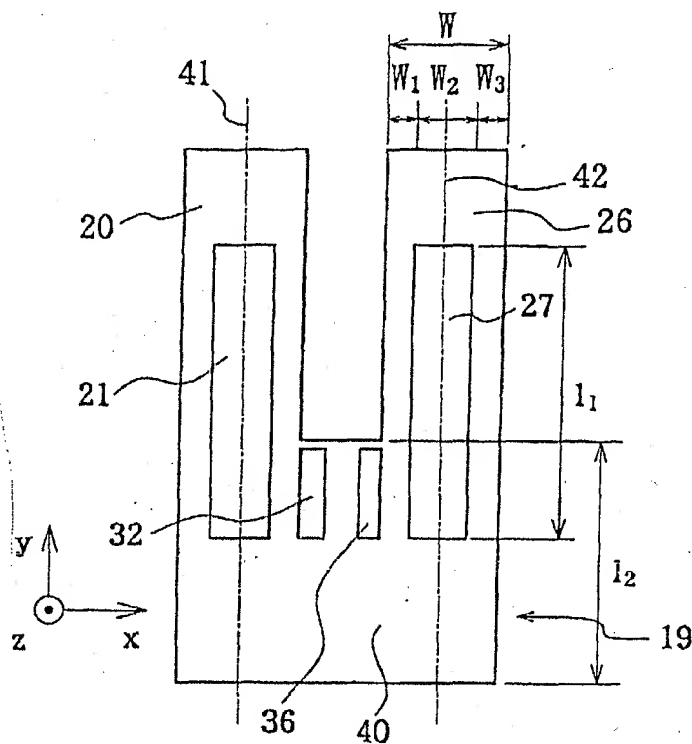


FIG. 8

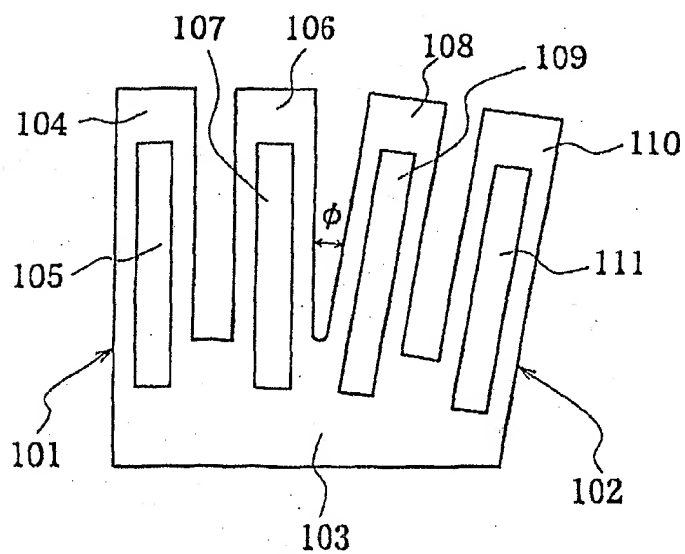


FIG. 9

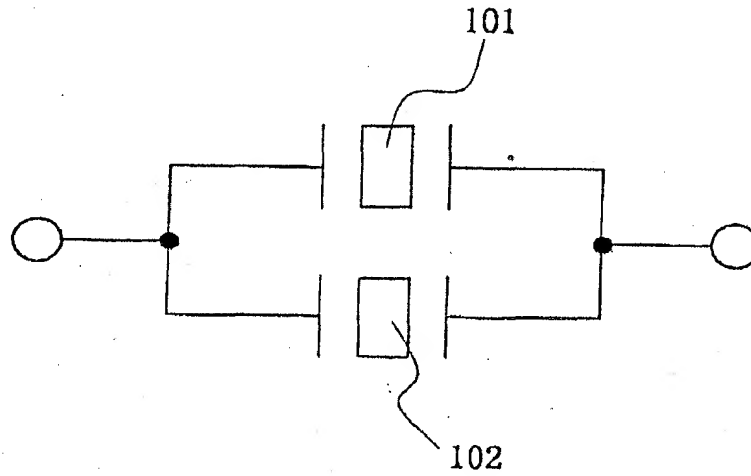


FIG. 10

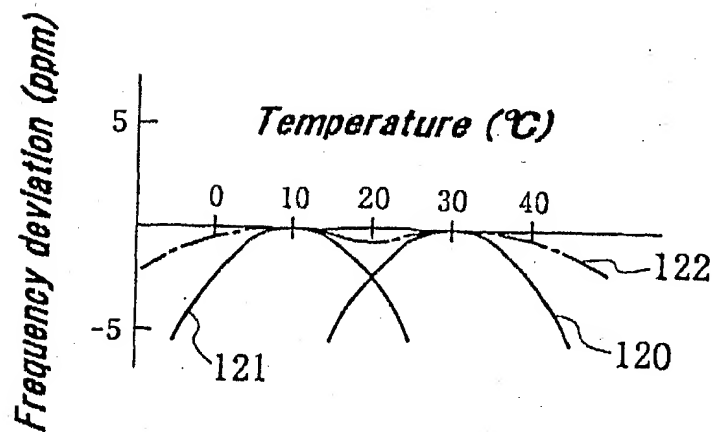


FIG. 11

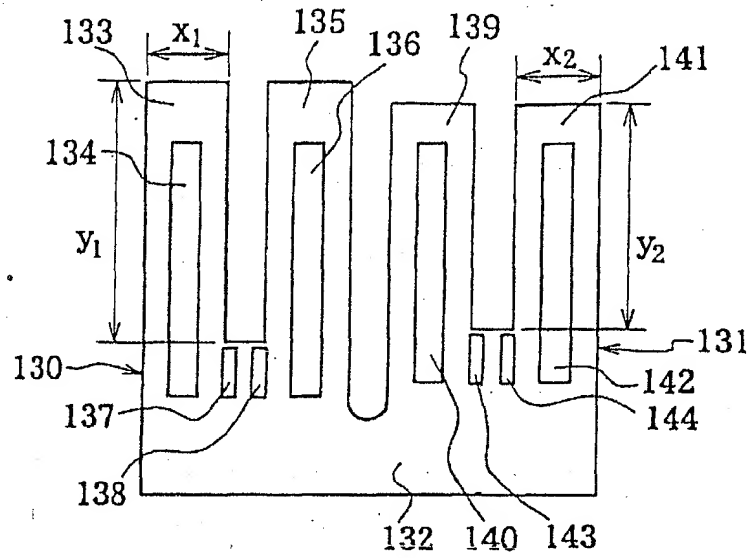


FIG. 12

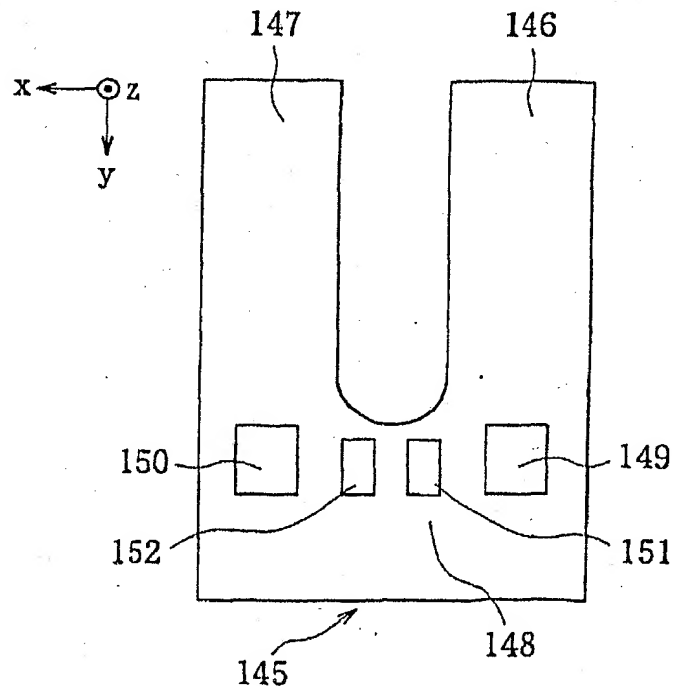
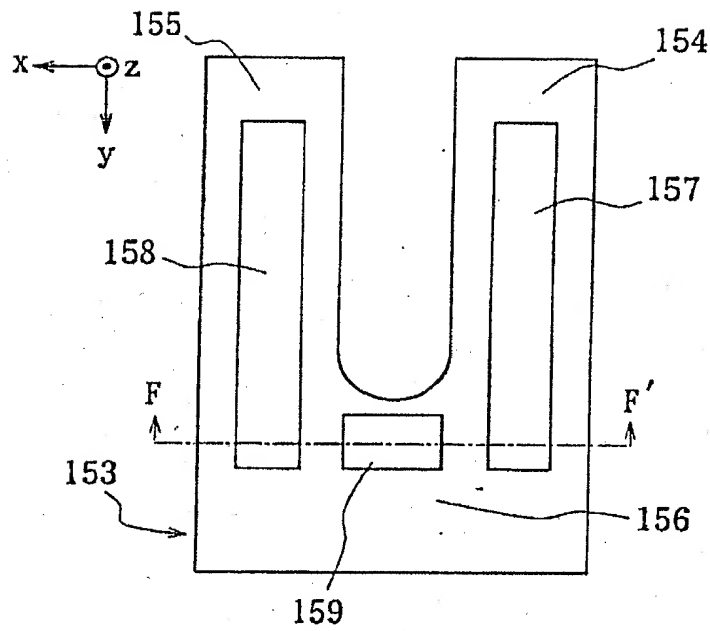


FIG. 13



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FIG. 14

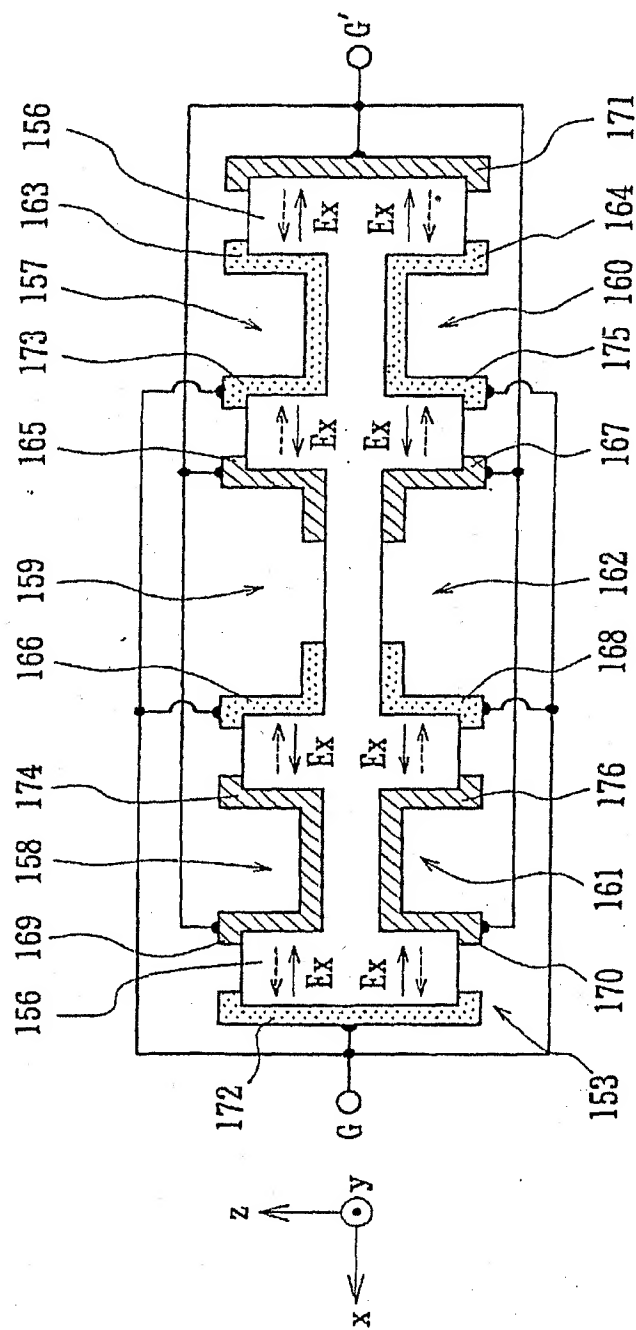


FIG. 14

FIG. 15

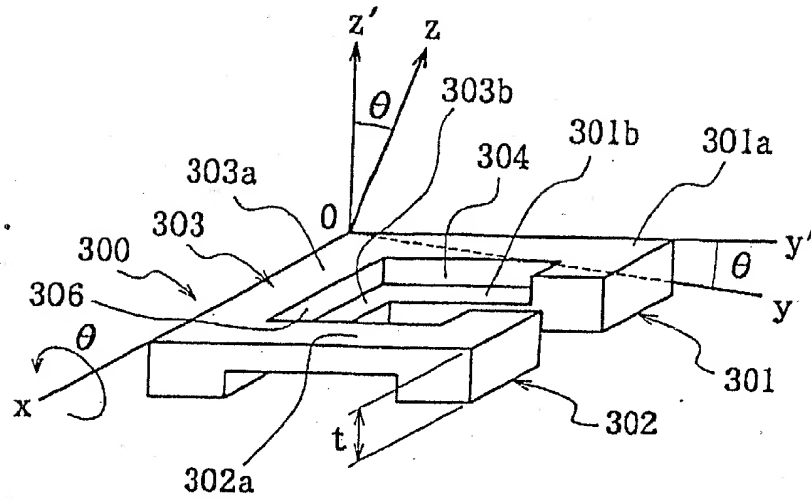


FIG. 16

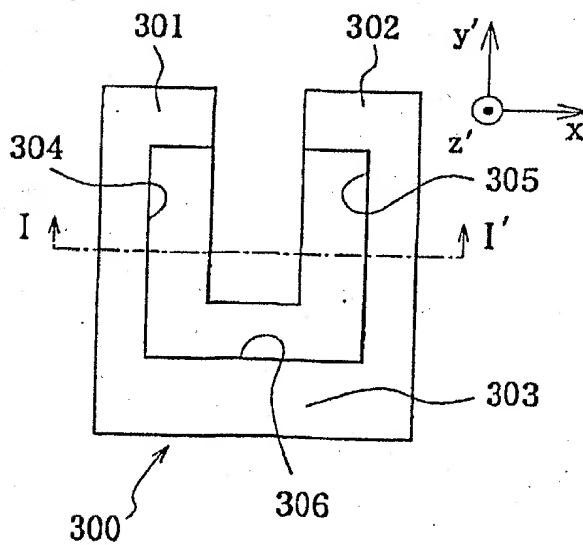


FIG.17

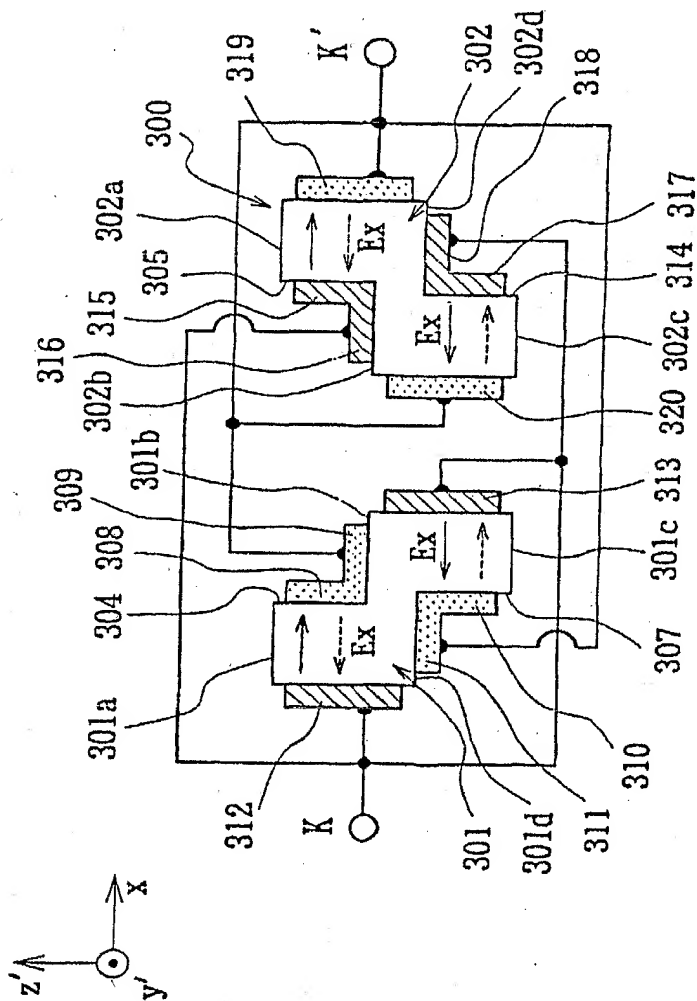


FIG. 18

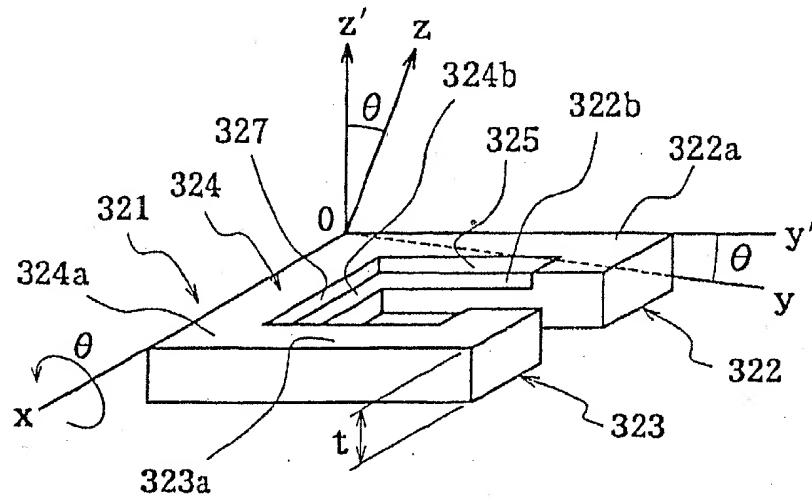


FIG. 19

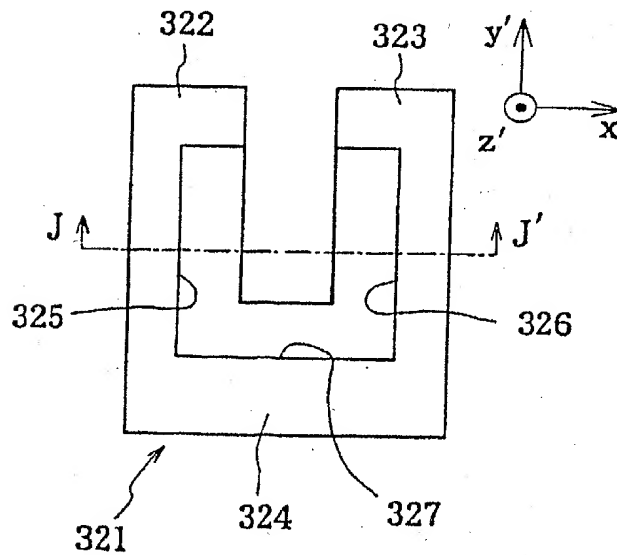


FIG.20

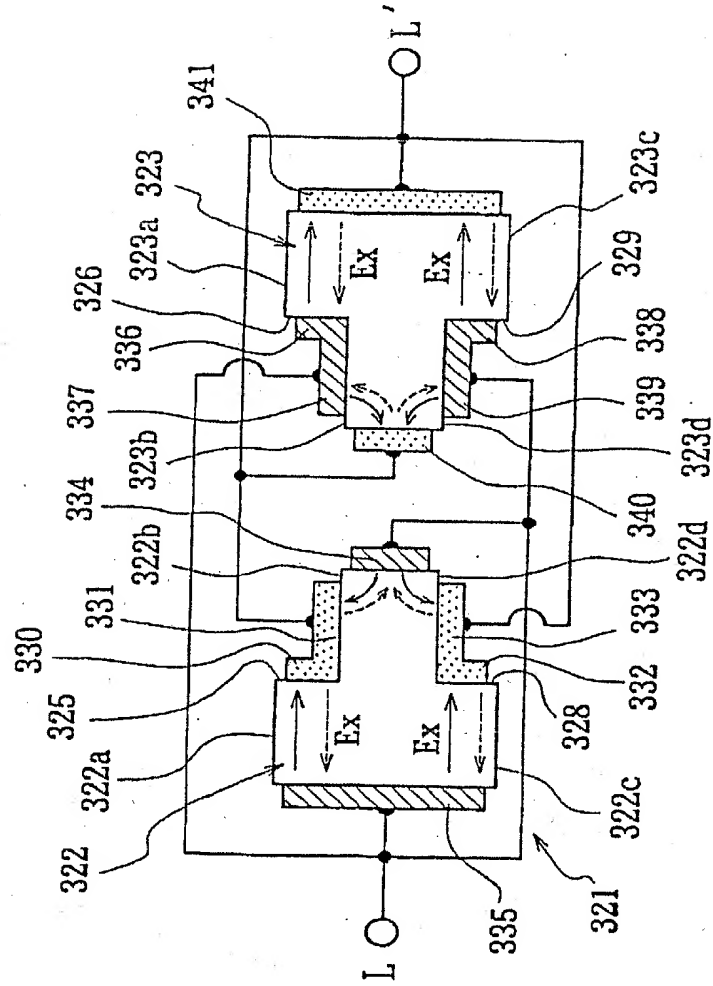
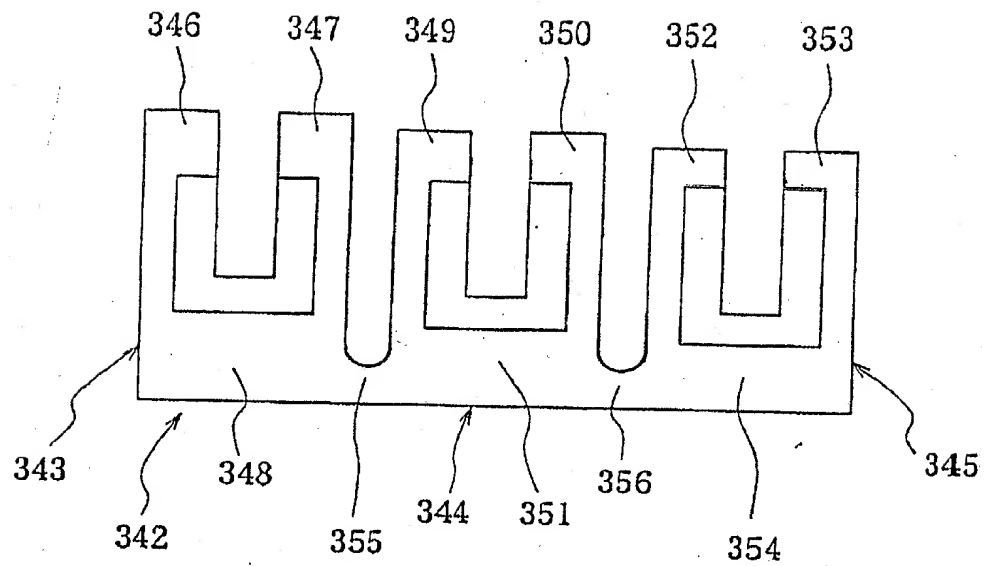


FIG.21



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PRIOR ART

